11

12

| サンプル | 研磨レート | 均一性 | 平坦化特性 | 底部削れ量(A) | 耐久性 |
|-------|---------|-----|----------|----------|--------|
| | (A/min) | (%) | 0-加段差(人) | | |
| 実施例し | 900 | 3 | 60 | 900 | 1000 枚 |
| 実施例2 | 850 | 6 | 40 | 750 | 2500 枚 |
| 実施例3 | 870 | 4.5 | 50 | 800 | 1100 枚 |
| 実施例4 | 920 | 4.5 | 50 | 800 | 950 枚 |
| 実施例 5 | 900 | 3 | 60 | 900 | 1000 枚 |
| 実施例6 | 850 | 3 | 60 | 900 | 1000 枚 |
| 比較例1 | 840 | 11 | 70 | 1050 | 4000 枚 |
| 比較例2 | 930 | 3 | 30 | 700 | 300 枚 |
| 比較例3 | 870 | 12 | 40 | 750 | 1100 枚 |
| 比較例4 | 700 | 3 | 60 | 900 | 1100 枚 |

[0025]

10*【図1】本発明の研磨パッドの断面図である

【発明の効果】本発明の研磨パッドを各種の研磨に用い ることにより、高い研磨速度を維持しながら、平坦性、 1:表面研磨層(発泡ポリウレタン)

均一性共に優れた被研磨物を得ることが出来る。

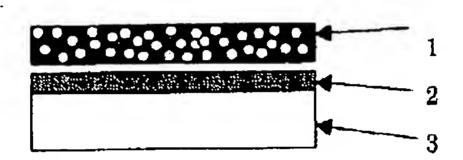
2:高弾性層 (PET、発泡PET層)

【図面の簡単な説明】

3:柔らかい層

【符号の説明】

【図1】



フロントページの続き

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Fターム(参考) 3C058 AA09 CB01 CB02 CB10 DA12 **DA17**

PAT-NO:

JP02002075933A

DOCUMENT-IDENTIFIER:

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TITLE:

POLISHING PAD

PUBN-DATE:

March 15, 2002

INVENTOR - INFORMATION:

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APPL-NO: JP2000252832

APPL-DATE: August 23, 2000

INT-CL (IPC): H01L021/304, B24B037/00

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a polishing pad for polishing semiconductor

wafer capable of meeting conflict requirement of uniformity of polishing degree

all over the wafer and planarization characteristic of concavity and convexity

of micro region in the polishing process for planarizing concavity and

convexity of micro pattern formed on the semiconductor wafer.

SOLUTION: The polishing pad for polishing semiconductor wafer with patterns

formed on its surface and having micro concavity and convexity comprises a

polishing layer 1 of the pad with its most surface layer formed by porous

elastic resin layer, a resin layer 2 (second layer) adjoining the

porous

elastic resin layer and having greater degree of elasticity than the same, and

a layer 3 (third layer) laminated on the opposite side of the porous elastic

resin layer from the second layer and softer enough than the second layer.

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200248

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TITLE:

Polishing pad for semiconductor wafer, has

soft layer

with elasticity lower than PET layer, which is

laminated

on reverse side of PET layer

PATENT-ASSIGNEE: TOYOBO KK[TOYM]

PRIORITY-DATA: 2000JP-0252832 (August 23, 2000)

PATENT-FAMILY:

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INT-CL (IPC): B24B037/00, H01L021/304

ABSTRACTED-PUB-NO: JP2002075933A

BASIC-ABSTRACT:

NOVELTY - A foam PET layer (2) with elasticity higher than a polish layer (1)

having a foam polyurethane, is formed on the polish layer. A soft layer (3)

with elasticity lower than the PET layer, is laminated on the reverse side of the PET layer.

USE - Used for polishing semiconductor wafer.

ADVANTAGE - Maintains high polishing velocity, by using the polishing pad for

various polishing. Uniform polishing is enhanced.

DESCRIPTION OF DRAWING(S) - The figure shows the sectional view of the polishing pad.

Polish layer 1

Foam PET layer 2

Soft layer 3

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: POLISH PAD SEMICONDUCTOR WAFER SOFT LAYER ELASTIC LOWER

PET LAYER

LAMINATE REVERSE SIDE PET LAYER

DERWENT-CLASS: A85 L03 P61 U11

CPI-CODES: A99-A; L04-B04A;

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